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1. A method for providing a network node with service reference information in an IP-based system using an IP telephony signalling protocol, wherein the method comprises the steps of:
 - 5 adding service reference information to an IP telephony signalling protocol message; and
 - sending the IP telephony signalling protocol message to the network node.
2. A method according to claim 1, wherein said IP telephony signalling protocol message is a message initiating a session.
- 10 3. A method according to claim 1, the method further comprising the steps of:
 - routing a call to the network node via an entry point; and
 - performing said adding in the entry point.
- 15 4. A method according to claim 3, wherein at least the address of the entry point is added as service reference information to the IP telephony signalling protocol message.
5. A method according to claim 1, wherein said service reference information is CAMEL-related information, the method further comprising the steps of:
 - 20 routing a call to the network node via an entry point;
 - generating a CAMEL call reference number for the call in the entry point; and
 - adding at least the CAMEL call reference number as said service
- 25 reference information to the IP telephony signalling protocol message in the entry point.
6. A method according to claim 1, wherein said service reference information is CAMEL-related information, the method further comprising the steps of:
 - 30 routing a call to the network node via an entry point;
 - generating a CAMEL call reference number for the call in the entry point; and
 - coding the CAMEL call reference number and the address of the
- entry point to a digit string; and
- 35 adding at least the digit string as service reference information to

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the IP telephony signalling protocol message in the entry point.

7. A method according to claim 1, wherein said IP telephony signalling protocol message is a response message acknowledging a message invoking a session.

5 8. A method according to claim 7, the method further comprising the steps of:

receiving an IP telephony signalling protocol message in a network node serving a called subscriber; and

10 adding at least the address of said network node serving a called subscriber as service reference information to the response message.

9. A method according to claim 1, wherein said service reference information is CAMEL-related information and said IP telephony signalling protocol message is a response message acknowledging a message invoking a session, the method further comprising the steps of:

15 receiving an IP telephony signalling protocol message invoking a session in a network node serving a called subscriber;

generating a CAMEL call reference number for the call in said network node serving a called subscriber; and

20 adding at least the CAMEL call reference number as service reference information to the response message in said node serving a called subscriber.

10. A method according to claim 1, wherein said service reference information is CAMEL-related information and said IP telephony signalling protocol message is a response message acknowledging a message invoking a session, the method further comprising the steps of:

25 receiving an IP telephony signalling protocol message in a network node serving a called subscriber;

generating a CAMEL call reference number for the call in said network node serving a called subscriber;

30 coding the CAMEL call reference number and the address of said network node serving a called subscriber to a digit string; and

adding at least the digit string as service reference information to the response message.

11. A method according to claim 1, wherein said service reference information is OSA-related information.

35 12. A method according to claim 1, wherein said service reference

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information is Parlay API-related information.

13. A method according to claim 1, wherein said IP telephony signaling protocol is SIP.

14. A method according to claim 1, wherein said IP telephony signaling protocol is H.323.

15. A method for providing a network node serving a called subscriber with CAMEL-related information in an IP-based system using SIP, wherein the method comprises the steps of:

routing a call to the network node via an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the entry point;

adding at least the CAMEL call reference number and the address of the entry point as CAMEL-related information to the SIP INVITE message;

and sending the SIP INVITE message to the network node.

16. A method for providing a network node serving a called subscriber with CAMEL-related information in an IP-based system using SIP, wherein the method comprises the steps of:

routing a call to the network node via an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the entry point;

coding the CAMEL call reference number and the address of the entry point in a digit string;

adding at least the digit string as CAMEL-related information to the SIP INVITE message; and

sending the SIP INVITE message to the network node.

17. A method for providing an IP-based system using SIP with CAMEL-related information, wherein the method comprises the steps of:

receiving a SIP INVITE message at a network node serving a called subscriber from an entry point for the called subscriber;

generating a CAMEL call reference number for the call in the network node;

adding at least the CAMEL call reference number and the address of the network node as CAMEL-related information to a SIP response mes-

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sage acknowledging SIP INVITE message; and

sending the SIP response message to the entry point.

18. A method for providing an IP-based system using SIP with CAMEL-related information, wherein the method comprises the steps of:

5 receiving a SIP INVITE message a network node serving a called subscriber from an entry point for the called subscriber;
generating a CAMEL call reference number for the call in the network node;

10 coding the CAMEL call reference number and the address of the network node in a digit string;

adding the digit string as CAMEL-related information to a SIP response message acknowledging the SIP INVITE message; and
sending the SIP response message to the entry point.

19. A method according to any one of the preceding claims, wherein the CAMEL-related information is added to the header of the IP telephony signalling protocol message.

20. A method according to any one of the preceding claims 1 to 18, wherein the CAMEL-related information is added to the body of the SIP message.

21. A communications system providing IP telephony, comprising at least

user equipment;

a first network node; and

a second network node,

25 wherein

the first network node is arranged to add service reference information relating to a call made to the user equipment to an IP telephony signalling protocol message and to send the IP telephony signalling protocol message to the second network node; and

30 the second network node is arranged to separate the service reference information from the IP telephony signalling protocol message

22. A communications system according to claim 21, wherein

the first network node is arranged to add its address as service reference information to the IP telephony signalling protocol message.

23. A communications system according to claim 21, wherein
35 the communications system provides a CAMEL service; and

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the first network node is arranged to generate a CAMEL call reference number and to add at least the generated CAMEL call reference number as service reference information to the IP telephony signalling protocol message.

24. A communications system using SIP for IP telephony and providing a CAMEL service, comprising at least

user equipment;
a first network node; and
a second network node,
wherein

the first network node is arranged to add CAMEL-related information relating to a call made to the user equipment to a SIP message and to send the SIP message to the second network node; and

the second network node is arranged to separate the CAMEL-related information from the SIP message.

25. A communications system according to claim 24, wherein

the first network node is arranged to generate a CAMEL call reference number and to add at least the CAMEL call reference number and its address as CAMEL-related information to the SIP message.

26. A communications system according to claim 24, wherein

the first network node is arranged to generate a CAMEL call reference number, to code at least the CAMEL call reference number and its own address to a digit string and to add at least the digit string as CAMEL-related information to the SIP message; and

the second network node is arranged to decode the digit string.

27. A communications system according to any one of the preceding claims 24 to 26, wherein the SIP message is a SIP INVITE message comprising CAMEL-related information in the header of the SIP INVITE message.

28. A communications system according to any one of the preceding claims 24 to 26, wherein the SIP message is a SIP INVITE message comprising CAMEL-related information in the body of the SIP INVITE message.

29. A communications system providing IP telephony, comprising at least

user equipment;
a first network node; and
a second network node,

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wherein

the first network node is arranged to add first service reference information relating to a call made to the user equipment to an IP telephony signalling protocol message initiating a session, to send the IP telephony signalling protocol message initiating a session to the second network node, to receive a response message acknowledging the IP telephony signalling protocol message initiating a session and to separate second service reference information relating to the call from the SIP response message; and

the second network node is arranged to separate the first service reference information from the IP telephony signalling protocol message initiating a session, to add the second service reference information to the response message and to send the response message to the first network node.

30. A communications system using SIP for IP telephony and providing a CAMEL service, comprising at least

15 user equipment;

a first network node; and

a second network node,

wherein

the first network node is arranged to add first CAMEL-related information relating to a call made to the user equipment to a SIP INVITE message, to send the SIP INVITE message to the second network node, to receive a SIP response message acknowledging the SIP INVITE message and to separate second CAMEL-related information relating to the call from the SIP response message; and

25 the second network node is arranged to separate the first CAMEL-related information from the SIP INVITE message, to add the second CAMEL-related information to the SIP response message and to send the SIP response message to the first network node.

31. A communications system according to claim 30, wherein

30 the first CAMEL-related information includes at least the address of the first network node,

the second network node is further arranged to generate a CAMEL call reference number; and

the second CAMEL-related information includes at least the CAMEL call reference number.

32. A communications system according to claim 30, wherein

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the first network node is further arranged to generate a CAMEL call reference number; and

the first CAMEL-related information includes at least the generated CAMEL call reference number; and

the second CAMEL-related information includes at least the address of the second network node.

33. A network node in a communications system providing IP telephony, wherein the network node comprises means for adding service reference information to an IP telephony signalling protocol message.

34. A network node in a communications system providing IP telephony, wherein the network node comprises means for separating service reference information from an IP telephony signalling protocol message.

35. A network node in a communications system using SIP and providing a CAMEL service, wherein the network node comprises means for adding CAMEL-related information to a SIP message.

36. A network node in a communications system using SIP and providing a CAMEL service, wherein the network node comprises means for generating a CAMEL call reference number and means for adding at least the CAMEL call reference number as CAMEL-related information to a SIP message.

37. (Amended) A network node according to claim 33, wherein the network node comprises a call state control function.

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38. (New) A method according to claim 16, wherein the CAMEL-related information is added to the header of the IP telephony signalling protocol message.

39. (New) A method according to claim 16, wherein the CAMEL-related information is added to the body of the SIP message.

40. (New) A method according to claim 17, wherein the CAMEL-related information is added to the header of the IP telephony signalling protocol message.

41. (New) A method according to claim 17, wherein the CAMEL-related information is added to the body of the SIP message.

42. (New) A method according to claim 18, wherein the CAMEL-related information is added to the header of the IP telephony signalling protocol message.

43. (New) A method according to claim 18, wherein the CAMEL-related information is added to the body of the SIP message.
